



# North Central Michigan College Master Course Syllabus

## PART 1:

Course Name: Managing Windows Networks

Course Number: IT 141

Credit Hrs. 4      Lecture Hrs. 4      Lab Hrs. 0      Clinical Hrs. 0      Variable Hrs. 0

Total Hours of Instruction: 4      Total Contact Hours: 70.4  
(Total Contact hour's formula: (lecture hrs. + lab hrs. + clinical hrs) x 17.6)

### Course Description:

Implementing, managing and troubleshooting existing Microsoft Windows networks. Focus will be on the skills generally required in medium to large size organizations spanning 2 to 100 physical locations via Wide Area Networks (WANs) and the Internet. The learner will manage standards based Web sites and DNS on the Internet. Additionally, this course will help the learner prepare for the Microsoft Certified Systems Administrator (MCSA) Certification Examination.

Prerequisite (s): IT 130 or Instructor permission

Co-requisite (s): None

### Course Objectives:

Upon successful completion of the course, the learner will be able to:

- Install Active Directory and manage DNS for Active Directory with Split Brain DNS on the Internet.
- Manage the different forest-wide and domain-wide operations master roles.
- Configure zones, site settings and inter-site replication.
- Monitor and troubleshoot DNS in the enterprise environment.
- Create and administer various types of user accounts and groups policies and accounts.
- Configure NTFS security and security for shared folders.
- Backup, restore and troubleshoot Active Directory.
- Administer a security configuration, including various audit policies

Reasonable accommodations can be provided for students with documented disabilities. Please contact Learning Support Services to arrange for these (231)348-6687 or (231)348-6817, Room 533 SCRC.



# North Central Michigan College Master Course Syllabus

## PART 2:

### Course Objectives and Linked Lumina DQP Outcomes

See **PART 3** of this syllabus for the complete language of each Lumina DQP outcome.

*Please identify the Lumina DQP outcome(s) supported by the course objectives. List each course objectives (from **PART 1**), followed by the corresponding Lumina DQP Outcome number(s) in parentheses. (See the example.)*

*Example:*

- *Course Objective (DQP # 1, 5, 8)*
  
- Install Active Directory and manage DNS for Active Directory with Split Brain DNS on the Internet. (DQP 3)
- Manage the different forest-wide and domain-wide operations master roles. (DQP 3)
- Configure zones, site settings and inter-site replication. (DQP 3)
- Monitor and troubleshoot DNS in the enterprise environment. (DQP 3)
- Create and administer various types of user accounts and groups policies and accounts. (DQP 3)
- Configure NTFS security and security for shared folders. (DQP 3)
- Backup, restore and troubleshoot Active Directory. (DQP 3)
- Administer a security configuration, including various audit policies. (DQP 3)



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## **Suggested Methods of Instruction:**

This course will be completed as an instructor directed self-study using laboratory exercises coinciding with assigned readings and online supplemental study aids. The lab exercise will be the administration of an actual multiple subnet Windows network across the North Central campus.

## **Suggested Methods of Assessment and Evaluation:**

Tests, quizzes, assigned projects, lab work and an oral examination.

## **Adopted Text at Time of Course Adoption/Revision:**

Mastering Windows Server 2008 (Hardcover) by Mark Minasi, Lisa Justice Publisher: Sybex

Microsoft Windows Server Resource Kit: by Microsoft Press

## **Topics Covered During the Semester:**

*Sequence of topics and time allowance are at the discretion of the instructor*

<b>Reading Assignments</b>	<b>Lab Exercises (Note 1) Each lab requires a separate report (10 pts each report)</b>	<b>Examinations</b>
As needed	Obtain administrative privileges on each lab server	
	Document the labs resources on industry standard forms	
	Document the lab's LAN and subnets on a Visio diagram	
	Redesign the program's Web sites using standards bases XML	
	Document the lab's DNS system on a Visio diagram	
	Complete daily tasks as assigned to maintain current and standards based configurations in the lab. Each assignment shall be recorded on industry standard forms.	Oral examination (40 pts)

Part 1 & Part 2 approved by CRDAP on: 05 06 16

Part 2 approved by AD:

Date:

Part 2 approved by CRDAP Chair:

Date:

Rev02/15



# North Central Michigan College Master Course Syllabus

## **PART 3:**

**LUMINA DQP OUTCOMES** – Use this reference sheet for **PART 2** of Master Course Syllabus.

### **Specialized Knowledge**

1. Describes the scope and principal features of the field of study, citing at least some of its core theories and practices and offers a similar explication of at least one related field.
2. Illustrates contemporary terminology used in the field.
3. Generates substantially error-free products, reconstructions, data, juried exhibits or performances as appropriate to the field.

### **Broad Integrative Knowledge**

4. Describes how existing knowledge or practice is advanced, tested and revised
5. Describes and examines a range of perspectives on key debates and their significance both within the field and in society.
6. Illustrates core concepts of the field while executing analytical, practical or creative tasks.
7. Selects and applies recognized methods of the field in interpreting characteristic discipline-based problems.
8. Assembles evidence relevant to characteristic problems in the field, describes the significance of the evidence and uses the evidence in analysis of these problems.
9. Describes the ways in which at least two disciplines define, address and interpret the importance of a contemporary challenge or problem in science, the arts, society, human services, economic life or technology.

### **Intellectual Skills – Analytic Inquiry**

10. Identifies, categorizes and distinguishes among elements of ideas, concepts, theories and/or practical approaches to standard problems.

### **Intellectual Skills – Use of Information Resources**

11. Identifies, categorizes, evaluates and cites multiple information resources necessary to engage in projects, papers or performance in his or her program.

### **Intellectual Skills – Engaging Diverse Perspectives**

12. Describes how knowledge from different cultural perspectives would affect his or her interpretations of prominent problems in politics, society, the arts and/or global relations.

### **Intellectual Skills – Communication Fluency**

13. Presents accurate calculations and symbolic operations and explains how such calculations and operations are used in either his or her specific field of study or in interpreting social and economic trends.
14. Presents substantially error-free prose in both argumentative and narrative forms to general and specialized audiences.

### **Applied Learning**

15. Describes in writing at least one substantial case in which knowledge and skills acquired in academic settings are applied to a challenge in a non-academic setting; applies that learning to the question; and analyzes at least one significant concept or method related to his or her course of study in light of learning outside the classroom.
16. Locates, gathers and organizes evidence on an assigned research topic addressing a course-related question or a question of practice in a work or community setting; offers and examines competing hypotheses in answering the question.

### **Civic Learning**

17. Describes his or her own civic and cultural background, including its origins and development, assumptions and predispositions.
18. Describes diverse positions, historical and contemporary, on selected democratic values or practices and presents his or her own position on a specific problem where one or more of these values or practices are involved.
19. Takes an active role in a community context (work, service, co-curricular activities, etc.) and examines the civic issues encountered and the insights gained from the community experience.

The Degree Qualifications Profile was adopted by CRDAP: April 11, 2012